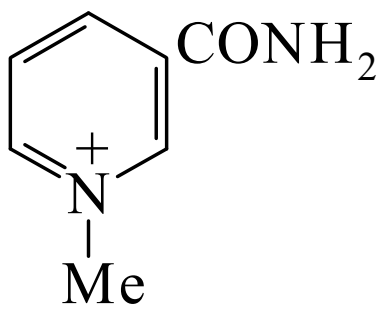




>>Entry Name: 3-(Aminocarbonyl)-1-methylpyridinium(1+), 9Cl

Synonym(s): 3-Carbamoyl-1-methylpyridinium, 8Cl. 1-Methylnicotinamide



CAS Registry Number: 3106-60-3

Molecular Formula: $C_7H_9N_2O^{(+)}$

Molecular Weight: 137.161

Accurate Mass: 137.071488

Percentage Composition: C 61.30%; H 6.61%; N 20.42%; O 11.66%

Source/Synthesis: Urinary metabolite of nicotinic acid

>>Derivative: Chloride

Synonym(s): Nicotinamide methochloride

CAS Registry Number: 1005-24-9

Molecular Formula: $C_7H_9ClN_2O$

Molecular Weight: 172.614

Accurate Mass: 172.04034

Percentage Composition: C 48.71%; H 5.26%; Cl 20.54%; N 16.23%; O 9.27%

Use/Importance: Reagent for the fluorometric anal. of α -oxomethylene compds.

Melting Point: Mp 244-245°

Sigma: M4627

>>Derivative: Iodide

Synonym(s): Nicotinamide methiodide

CAS Registry Number: 6456-44-6

Molecular Formula: $C_7H_9IN_2O$

Molecular Weight: 264.065

Accurate Mass: 263.975961

Percentage Composition: C 31.84%; H 3.44%; I 48.06%; N 10.61%; O 6.06%

Physical Description: Yellowish-green prisms

Melting Point: Mp 204°

Rare Chemicals Library: S62682-1

Sigma: M4752

References:

Karrer, P. *et al.*, *Helv. Chim. Acta*, 1936, **19**, 826, (*synth*)

Huff, J.W. *et al.*, *J. Biol. Chem.*, 1943, **150**, 395, (*synth*)

Decker, R.H. *et al.*, *Anal. Biochem.*, 1962, **3**, 357, (*synth, chloride*)

Long, K.R. *et al.*, *J. Magn. Reson.*, 1972, **8**, 207, (*cmr*)

Freeman, G.R. *et al.*, *Acta Cryst. B*, 1974, **30**, 431, (*cryst struct*)

Nakamura, H. *et al.*, *J. Chromatogr.*, 1979, **168**, 407, (*use, chloride*)